

# API Connections Create v3

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Create the specified connection.

**i NOTE:** In this release, you cannot create SQL DW connections via the API. Please create these connections through the application. This known issue will be fixed in a future release.

For more information on connections, see *CLI for Connections*.

**Version:** v3

## Required Permissions

**i NOTE:** Each request to the Trifacta® platform must include authentication credentials. See *API Authentication*.

## Request

**Request Type:** POST

**Endpoint:**

```
/v3/connections/
```

## Request Body - Relational Connection:

For relational connections, the request body should look like the following. All properties are required unless noted.



**i NOTE:** Relational connections require the creation and installation of an encryption key file on the Trifacta node. This file must be present before the connection is created. See *Create Encryption Key File*.

This example creates a SQL Server connection of `basic` type. A valid username/password combination must be specified in the `credentials` property.

```

{
  "name": "sqlserver",
  "description": "",
  "isGlobal": false,
  "type": "jdbc",
  "host": "sqlserver.example.com",
  "port": 1433,
  "vendor": "sqlserver",
  "params": {
    "connectStrOpts": ""
  },
  "ssl": false,
  "credentialType": "basic",
  "credentials": [
    {
      "username": "<username>",
      "password": "<password>"
    }
  ]
}

```



Property	Description
name	Display name of the connection
description	(Optional) Display description for the connection
isGlobal	(Optional) If <code>true</code> , the connection is available to all users. The default is <code>false</code> .
type	For more information on the value to insert for the connection, see <i>Connection Types</i> .
host	Host name of the relational server to which to connect.
port	Port number for the relational server. The default value varies between database vendors. For more information, please see the documentation provided with your database distribution.
vendor	For more information on the value to insert for the connection, see <i>Connection Types</i> .
params	(Optional) Set of JSON parameters that are passed to the database when initializing the connection. Depending on the database vendor, you may be required to submit via this parameter the name of the default database. You can also pass in optional parameters through the <code>ConnectStrOpts</code> parameter. For more information, see <i>CLI for Connections</i> .
ssl	<p>(Optional) If set to <code>true</code>, the connection is made over SSL. The default is <code>false</code>.</p> <div style="border: 1px solid #ccc; padding: 5px; margin: 5px 0;"> <p> <b>NOTE:</b> If you connect over SSL, you must modify the hostname value to use HTTPS.</p> </div> <div style="border: 1px solid #ccc; padding: 5px; margin: 5px 0;"> <p> <b>NOTE:</b> SSL connections to SQL Server are not supported.</p> </div>
credentialType	<p>Set this value to one of the following:</p> <ul style="list-style-type: none"> <li><code>basic</code> - Simple username/password to be provided in the <code>credentials</code> property.</li> <li><code>conf</code> - Use the connection credentials stored in <code>trifacta-conf.json</code>.</li> <li><code>custom</code> - Connection credentials are specified in the <code>params</code> property, such as using key-value parameters to specify access credentials.</li> </ul>
credentials	(Optional) If <code>credentialType=basic</code> , this property must contain the username and password to use to connect to the relational source.

### Request Body - Hive Connection:

You can create only one public connection to Hive.

```
{
  "host": "hadoop",
  "port": 10000,
  "vendor": "hive",
  "params": {
    "jdbc": "hive2",
    "connectStrOpts": "",
    "defaultDatabase": ""
  },
  "ssl": false,
  "name": "hiveAPI",
  "description": "Hive conn via API",
  "type": "jdbc",
  "isGlobal": true,
  "credentialType": "conf",
  "credentialsShared": true
}
```

The following property values are specific to Hive connections.

Property	Description
host	Set this value to <code>hadoop</code> to integrate with the Hive instance for the Hadoop cluster to which the Trifacta platform is connected.
params	Connection parameters for the Hive instance. <div style="border: 1px solid #ccc; padding: 10px; margin: 10px 0;"><p> <b>NOTE:</b> The following parameter entry is required for Hive:</p><pre style="border: 1px solid #ccc; padding: 5px; display: inline-block;">"jdbc": "hive2",</pre><p>Others are optional.</p></div>
type	Set this value to <code>jdbc</code> .
isGlobal	<div style="border: 1px solid #ccc; padding: 10px; margin: 10px 0;"><p> <b>NOTE:</b> For Hive connections, this value must be set to <code>true</code>.</p></div>
credentialType	Set this value to <code>conf</code> .

For more information, see *Configure for Hive*.


### Request Body - Redshift Connection:

```

{
  "host": "redshift.example.net",
  "port": 5439,
  "vendor": "redshift",
  "params": {
    "connectStrOpts": "",
    "defaultDatabase": "dev",
    "extraLoadParams": "BLANKSASNULL EMPTYASNULL TRIMBLANKS TRUNCATECOLUMNS"
  },
  "ssl": true,
  "name": "redshift",
  "description": "Redshiftconn",
  "type": "jdbc",
  "isGlobal": true,
  "credentialType": "custom",
  "credentialsShared": true,
  "credentials": [
    { "key": "user", "value": "<userId>" },
    { "key": "password", "value": "<PWD>" },
    { "key": "iamRoleArn", "value": "<IAM_role_ARN>" }
  ]
}

```

The following property values are specific to Redshift connections.

Property	Description
params	A default database value is required.  The extraLoadParams value is used when you publish results to Redshift. For more information on these values, see <a href="http://docs.aws.amazon.com/redshift/latest/dg/copy-parameters-data-conversion.html">http://docs.aws.amazon.com/redshift/latest/dg/copy-parameters-data-conversion.html</a> .
type	Set this value to jdbc.
credentialType	Set this value to custom. Credentials are specified below.
credentials	username and password must be specified in this key-value format, although the value for either can be an empty string.  <div style="border: 1px solid #ccc; padding: 5px; margin-top: 10px;"> <p> <b>NOTE:</b> iamRoleArn is optional. For more information, see <i>Configure for EC2 Role-Based Authentication</i>.</p> </div>

For more information on parameters and credentials, see *Create Redshift Connections*.

## Response

**Response Status Code - Success:** 201 - Created

**Response Body Example:**

```
{
  "connectString": "jdbc:sqlserver://sqlserver.example.com:1433",
  "id": 5,
  "host": "sqlserver.example.com",
  "port": 1433,
  "vendor": "sqlserver",
  "params": {
    "connectStrOpts": ""
  },
  "ssl": false,
  "name": "sqlserver",
  "description": "",
  "type": "jdbc",
  "createdBy": 1,
  "isGlobal": false,
  "credentialType": "basic",
  "createdAt": "2017-07-05T18:00:19.165Z",
  "updatedAt": "2017-07-05T18:00:19.165Z",
  "updatedBy": 1,
  "credentials": [
    {
      "username": "<username>"
    }
  ]
}
```

## Reference

For more information on the response body properties, see *API Connections Get v3*.